

Application Coherency Manager, Phase I

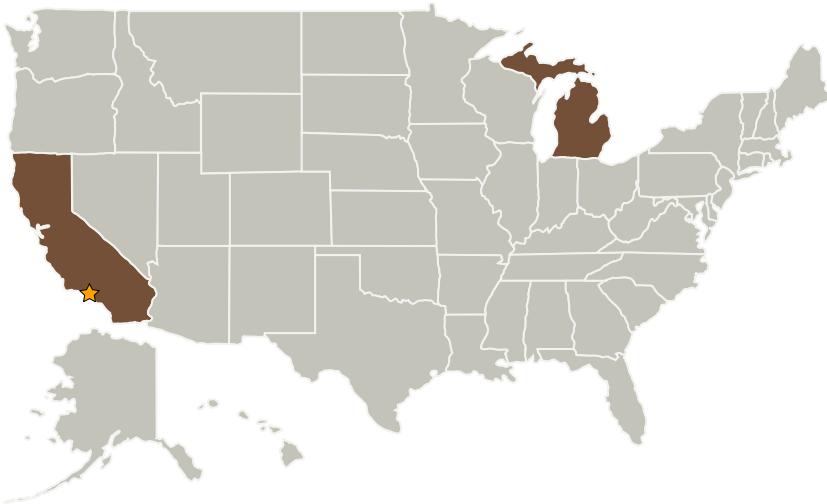
Completed Technology Project (2007 - 2007)



Project Introduction

This proposal describes an Application Coherency Manager that implements and manages the interdependencies of simulation, data, and platform information. It will also enforce a simulation configuration profile submission that includes the specification of the interdependency requirements. To describe these interdependencies, a general-purpose language will serve as the basis for higher-level rules that are assembled using a higher-level graphical user interface. We propose to implement a graphical user interface that allows the user to manage and assemble rule-profiles. A rule profile would be created by assembling and parameterizing one or more low-level code modules. This user interface would then be able to save these profiles into a revision archive, perhaps alongside the applications and the data sources. These profiles could then be checked out, and used. Locking the version of such a profile would freeze it in a known state. Leaving it unlocked would allow it to evolve. The profiles themselves would likely be stored as XML-based documents that refer to the low-level data-source checker modules

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★ Jet Propulsion Laboratory (JPL)	Lead Organization	NASA Center	Pasadena, California
Cybernet Systems Corporation	Supporting Organization	Industry	Ann Arbor, Michigan



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Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Center / Facility:

Jet Propulsion Laboratory (JPL)

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

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Primary U.S. Work Locations

California

Michigan

Project Management

Program Director:

Jason L Kessler

Program Manager:

Carlos Torrez

Technology Areas

Primary:

- TX11 Software, Modeling, Simulation, and Information Processing
 - └ TX11.4 Information Processing
 - └ TX11.4.2 Intelligent Data Understanding